

LUBRICATION DEVICE FOR STAGEGEARED GEARBOX

Abstract

Method and arrangement for providing a lubrication device for a stage-gearred gearbox (1, 2) arranged in a motor vehicle. The gearbox (1, 2) has an input shaft (4), intermediate shaft (5), which has at least one gear meshing with a gear on the input shaft (4). A main shaft (6) is provided with gears (7, 8, 9, 10) which mesh with gears on the intermediate shaft. One gear (11, 18) on both the intermediate shaft (5) and the main shaft (6) are for reverse. A reverse gear shaft (20) is supported in the casing (16, 21) and in a reverse gear shaft lug (22), the reverse gear shaft lug in turn being fixed in the casing (16). A reverse intermediate gear (19) is arranged on the reverse gear shaft (20) between the reverse gear shaft lug (22) and the bearing point for the reverse gear shaft in the casing (21). The reverse intermediate gear (19) meshes with the two corresponding gears (11, 18) for reverse gears. The lubrication device includes a lubricant pump (24) that is arranged between bearing points (16, 21, 22) of the reverse gear shaft (20). An oil filter (28) is arranged in the cover (54).